

Name: \_\_\_\_\_

**pb1106: Factoring when  $a = \text{prime}$  (v14)**

1. Factor the expression  $5x^2 - 29x + 36$

$$(5x - 9)(x - 4)$$

2. Factor the expression  $7x^2 - 52x + 21$

$$(7x - 3)(x - 7)$$

3. Factor the expression  $7x^2 + 65x + 72$

$$(7x + 9)(x + 8)$$

4. Factor the expression  $2x^2 + 21x + 54$

$$(2x + 9)(x + 6)$$

5. Factor the expression  $3x^2 + 19x - 40$

$$(3x - 5)(x + 8)$$

6. Factor the expression  $2x^2 - 9x + 7$

$$(2x - 7)(x - 1)$$

7. Factor the expression  $3x^2 - 16x - 35$

$$(3x + 5)(x - 7)$$

8. Factor the expression  $5x^2 - 4x - 12$

$$(5x + 6)(x - 2)$$

9. Factor the expression  $5x^2 + 28x - 49$

$$(5x - 7)(x + 7)$$

10. Factor the expression  $7x^2 + 71x + 72$

$$(7x + 8)(x + 9)$$